

PURPOSE: To eliminate a signal line wire harness and to reduce the launching weight of a satellite by establishing the interface of signal lines of inter- components loaded on the satellite by means of laser beams which are transmitted.

CONSTITUTION: Command signals are impressed on the optical sensors 10 which respective components 7 have from semiconductor laser emitting elements 13 by transmission by the laser beams 15 as digital control signals with respect to respective components 7. The laser beams 15 are impressed on the component in a dead angle from a command unit 5 by using a reflector 12 provided on a platform 9. Data in respective components 7 and the respective parts of the satellite are all digitized in A/D converters which the components have. The signals are impressed on the optical sensors 10 which a telemeter unit 6 has from the elements 13 by transmission by the laser beams 15. Next, a transmitter 4 modulates them and they are transmitted to a ground station as PCM telemetry down-link signals.

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